

ABSTRACT OF THE DISCLOSURE

An exemplary aircraft anticollision beacon is constructed around a faceted aluminum support cylinder and base. The support cylinder has an outside surface with ten vertically oriented substantially planar faces.

5 An array of LEDs is mounted in thermally conductive relationship on each face of the support cylinder. Each LED is partially surrounded by a trough-shaped reflecting surface that re-directs off axis light into a horizontal plane. Axially aligned, radially adjacent reflecting troughs combine to form the circumferential reflecting troughs. The support
10 cylinder and base are connected in thermally conductive relationship to define a thermal pathway from the LEDs to a heat radiation surface on the base. The base is also configured to act as a heat sink for heat generating components of the LED driver circuits. The exemplary beacon employs a distributed energizing circuit in which each driver is configured
15 to energize two of the ten arrays of LEDs.